COREnext Insights: New outcomes for the European Digital Security

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Welcome to the new season of COREnext journey!

In this 4th edition of COREnext Newsletter, we bring you the latest scientific findings from COREnext, where our experts have been at the forefront of advancing cybersecurity research.

Explore the events our researchers attended and meet the brilliant minds driving these innovations on our YouTube channel. See how their work is shaping a safer digital future for Europe.

Stay updated and engaged with COREnext!

COREnext presented during ASPLOS 2024 Conference in USA

In a recent highlight from the 2024 ACM International Conference on Architectural Support for

Programming Languages and Operating Systems (ASPLOS), COREnext researchers presented their paper, "Towards disaggregation-Native Data Streaming between Devices," at the 3rd Workshop on Heterogeneous Composable and Disaggregated Systems (HCDS). [Read on to explore the key insights](#) and implications of their study.

[Improving Time-Sensitive Systems: A New Approach with M³ Architecture](#)

At RTAS'24, experts gathered to share innovative ideas on enhancing time-sensitive systems. COREnext Team presented their paper, "Core-Local Reasoning and Predictable Cross-Core Communication with M³." Their work offers a fresh perspective on how to improve the design and performance of systems that rely on precise timing, paving the way for more reliable and efficient technologies.

Read more [HERE](#)!

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COREnext In Science Hub

Welcome to the [Scientific Publications section of COREnext](#), a dynamic hub for the scientific and literature stemming from our European project.

[Core-Local Reasoning and Predictable Cross-Core Communication with M3](#)

The COREnext team has published a scientific paper titled "[Core-Local Reasoning and Predictable Cross-Core Communication with M3.](#)" This research explores a novel architectural approach to real-time analysis using the M3 platform, known for its strong isolation between cores in heterogeneous systems.

READ MORE ↗

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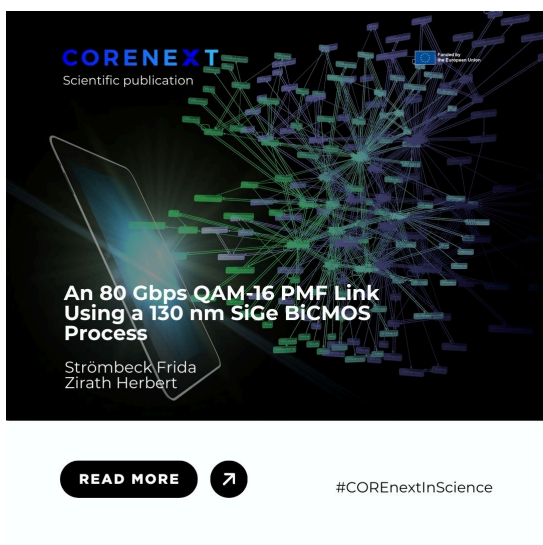
[An 80 Gbps QAM-16 PMF Link Using a 130 nm SiGe BiCMOS Process](#)

Frida Strömbeck and Herbert Zirath published their latest research titled "[An 80 Gbps QAM-16 PMF Link Using a 130 nm SiGe BiCMOS Process.](#)" This study presents a D-band (110 GHz - 170 GHz) polymer microwave fiber (PMF) link designed for high data rate communication.

Explore the full paper for detailed insights into this advancement in high data rate communication!

READ MORE ↗

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Dive into the future of digitalisation with our latest white paper! Uncover how trust and security are shaping the evolution of Europe's dominance in high-end consumer goods. Discover how the fusion of connectivity and sensing technologies is revolutionising product value and seamlessly weaving these innovations into consumers' digital lives.

Download our White Paper

Learn about COREnext on our YouTube channel!
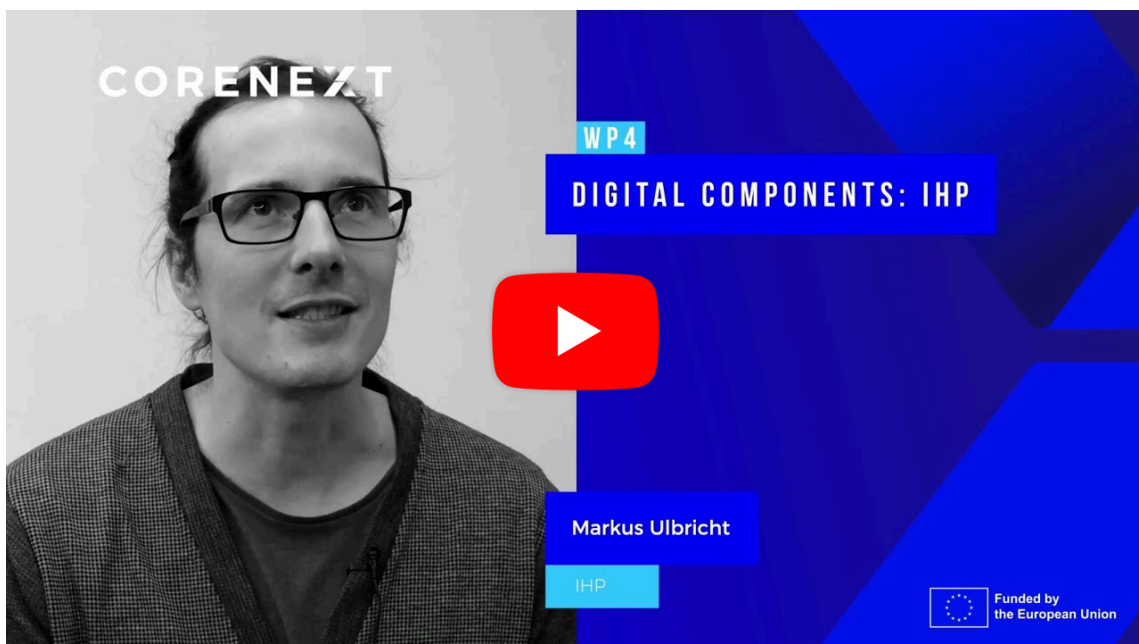
Get ready to explore how our Project Partners are working together to drive the COREnext solutions forward. In this video, they share insights into their Work Packages, detailing the key tasks and objectives that are shaping the future of COREnext.

Visit our YouTube channel

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CORENEXT is an EU-funded initiative that will bring together expert stakeholders in future mobile networks and integrate their perspectives in key focus areas like digital, analogue, and integrated solutions for computing, communication, and sensing.

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